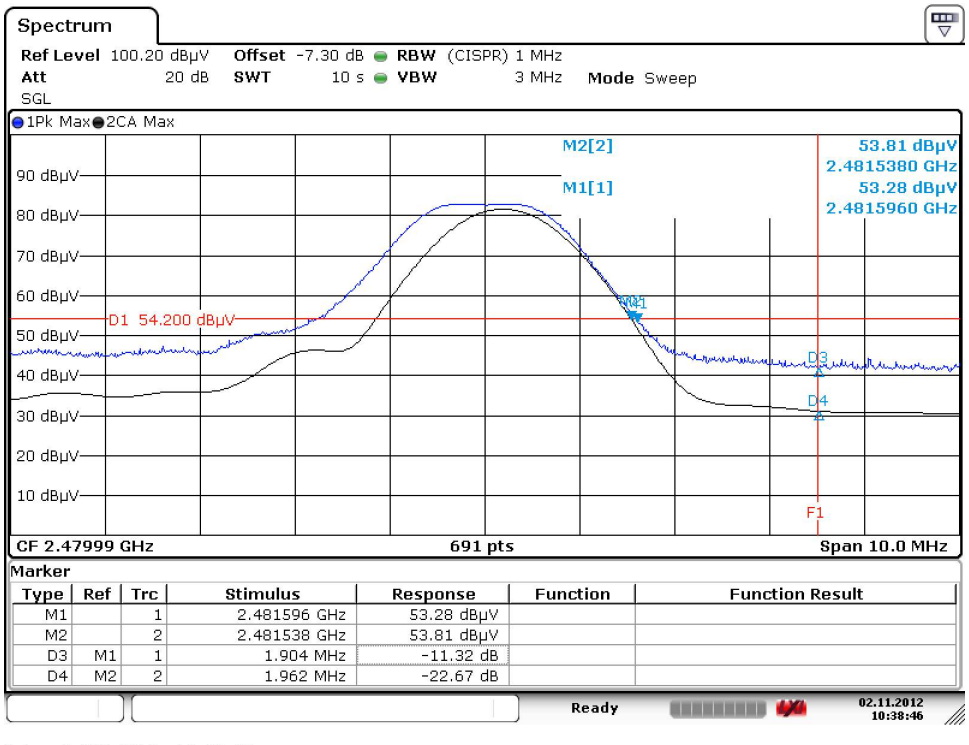
	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Band Edge Measurements**

DNB Job Number:	36045	Date: 2 Nov 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products 1Mbps data rate (Basic data rate)		**Clause** 15.247(d)

Ambient Temperature	Relative Humidity	Barometric Pressure
19 °C	28 %	101.8 kPa

EUT performed within the requirements of the applicable standard [X] Yes [ ] No *Les Payne*

Radiated Corrected Band Edge Measurement - Single Channel - Vert - X Axis						Freq Delta (MHz)	Pass/Fail
Limit	Lower (MHz)	Upper (MHz)	Limit (dBuV/m)	Measured (dBuV/m)	Delta (dBuV)		
2483.500		2481.596	54.0	42.68	-11.32	-1.904	Pass



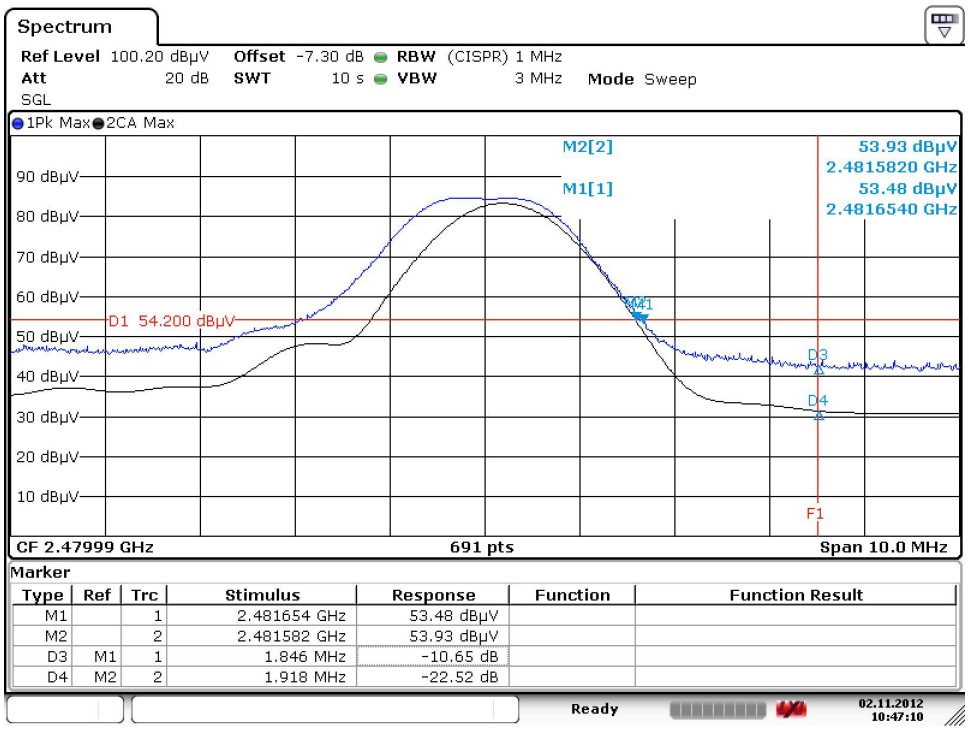
Date: 2.NOV.2012 10:38:45

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Band Edge Measurements**	
DNB Job Number:	36045	Date: 2 Nov 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products 1Mbps data rate (Basic data rate)		**Clause** 15.247(d)

Ambient Temperature	Relative Humidity	Barometric Pressure
19 °C	28 %	101.8 kPa

EUT performed within the requirements of the applicable standard [X] Yes [ ] No *Les Payne*

Radiated Corrected Band Edge Measurement - Single Channel - Vert - Y Axis						Freq Delta (MHz)	Pass/Fail
Limit	Lower (MHz)	Upper (MHz)	Limit (dBuV/m)	Measured (dBuV/m)	Delta (dBuV)		
2483.500		2481.654	54.0	43.35	-10.65	-1.846	Pass



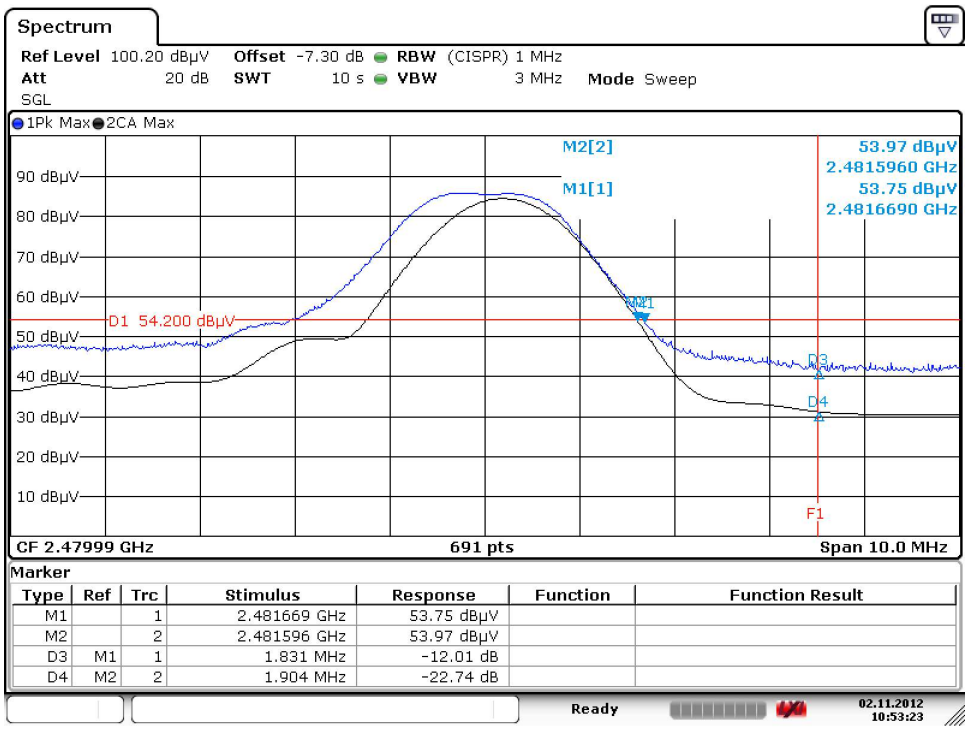
Date: 2.NOV.2012 10:47:10

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Band Edge Measurements**	
DNB Job Number:	36045	Date: 2 Nov 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products 1Mbps data rate (Basic data rate)		**Clause** 15.247(d)

Ambient Temperature	Relative Humidity	Barometric Pressure
19 °C	28 %	101.8 kPa

EUT performed within the requirements of the applicable standard [X] Yes [ ] No *Les Payne*

Radiated Corrected Band Edge Measurement - Single Channel - Vert - Z Axis						Freq Delta (MHz)	Pass/Fail
Limit	Lower (MHz)	Upper (MHz)	Limit (dBuV/m)	Measured (dBuV/m)	Delta (dBuV)		
2483.500		2481.669	54.0	41.99	-12.01	-1.831	Pass



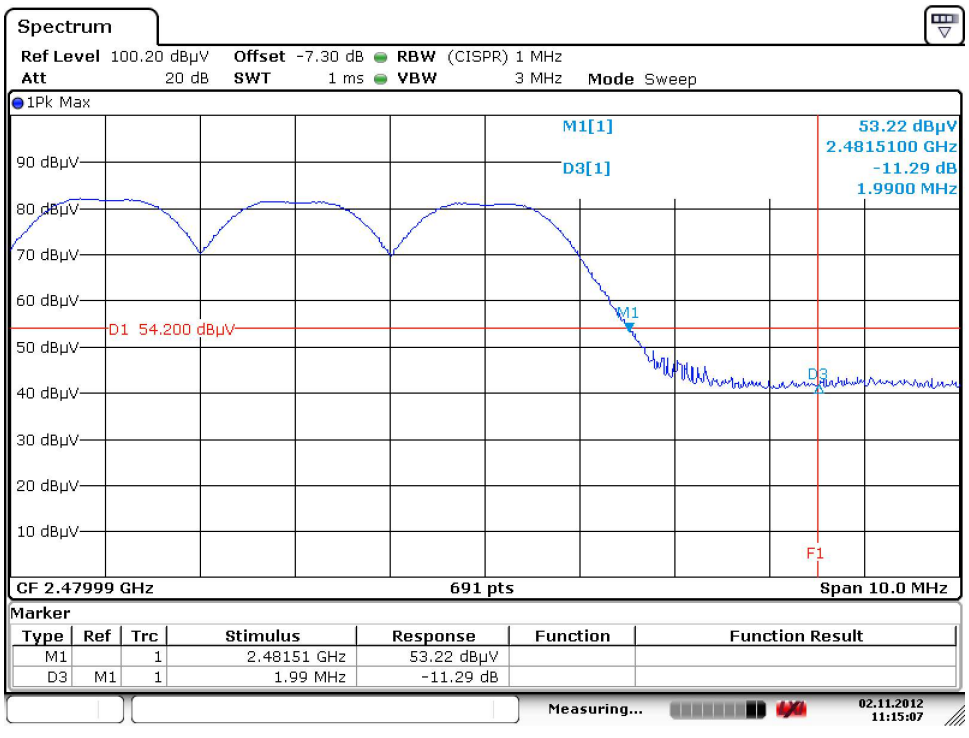
Date: 2.NOV.2012 10:53:22

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Band Edge Measurements**	
DNB Job Number:	36045	Date: 2 Nov 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products 1Mbps data rate (Basic data rate)		**Clause** 15.247(d)

Ambient Temperature	Relative Humidity	Barometric Pressure
19 °C	28 %	101.8 kPa

EUT performed within the requirements of the applicable standard [X] Yes [ ] No *Les Payne*

Radiated Corrected Band Edge Measurement - All Channels - Horz - X Axis						Freq Delta (MHz)	Pass/Fail
Limit	Lower (MHz)	Upper (MHz)	Limit (dBuV/m)	Measured (dBuV/m)	Delta (dBuV)		
2483.500		2481.510	54.0	42.71	-11.29	-1.990	Pass



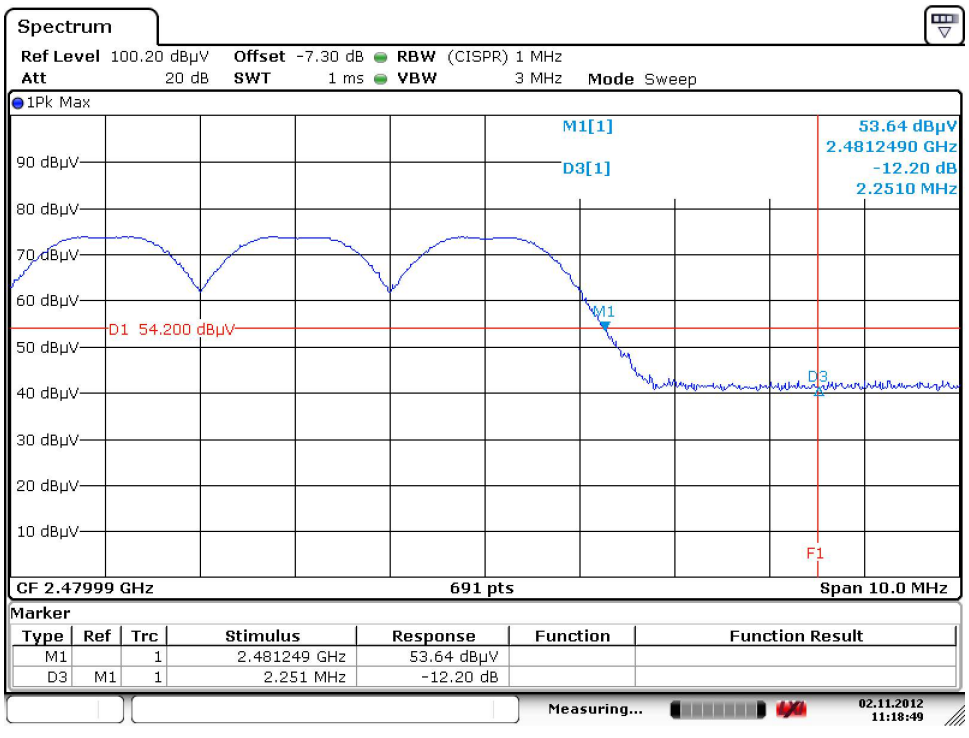
Date: 2.NOV.2012 11:15:07

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Band Edge Measurements**	
DNB Job Number:	36045	Date: 2 Nov 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products 1Mbps data rate (Basic data rate)		**Clause** 15.247(d)

Ambient Temperature	Relative Humidity	Barometric Pressure
19 °C	28 %	101.8 kPa

EUT performed within the requirements of the applicable standard [X] Yes [ ] No *Les Payne*

Radiated Corrected Band Edge Measurement - All Channels - Horz - Y Axis						Freq Delta (MHz)	Pass/Fail
Limit	Lower (MHz)	Upper (MHz)	Limit (dBuV/m)	Measured (dBuV/m)	Delta (dBuV)		
2483.500		2481.249	54.0	41.80	-12.20	-2.251	Pass



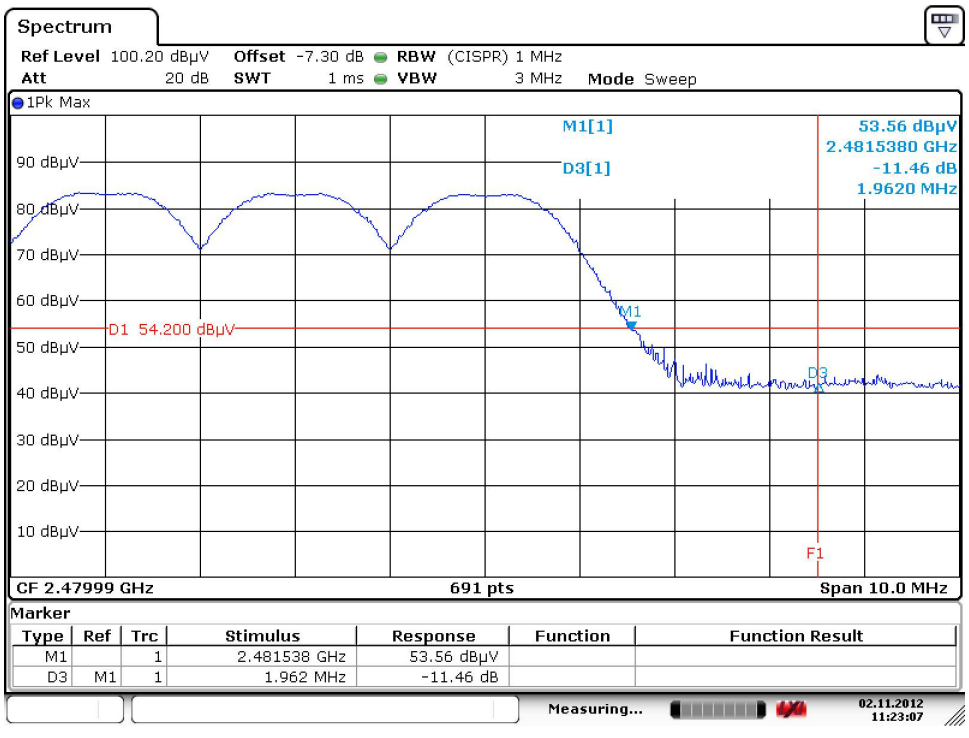
Date: 2.NOV.2012 11:18:49

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Band Edge Measurements**	
DNB Job Number:	36045	Date: 2 Nov 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products 1Mbps data rate (Basic data rate)		**Clause** 15.247(d)

Ambient Temperature	Relative Humidity	Barometric Pressure
19 °C	28 %	101.8 kPa

EUT performed within the requirements of the applicable standard [X] Yes [ ] No *Les Payne*

Radiated Corrected Band Edge Measurement - All Channels - Horz - Z Axis						Freq Delta (MHz)	Pass/Fail
Limit	Lower (MHz)	Upper (MHz)	Limit (dBuV/m)	Measured (dBuV/m)	Delta (dBuV)		
2483.500		2481.538	54.0	42.54	-11.46	-1.962	Pass



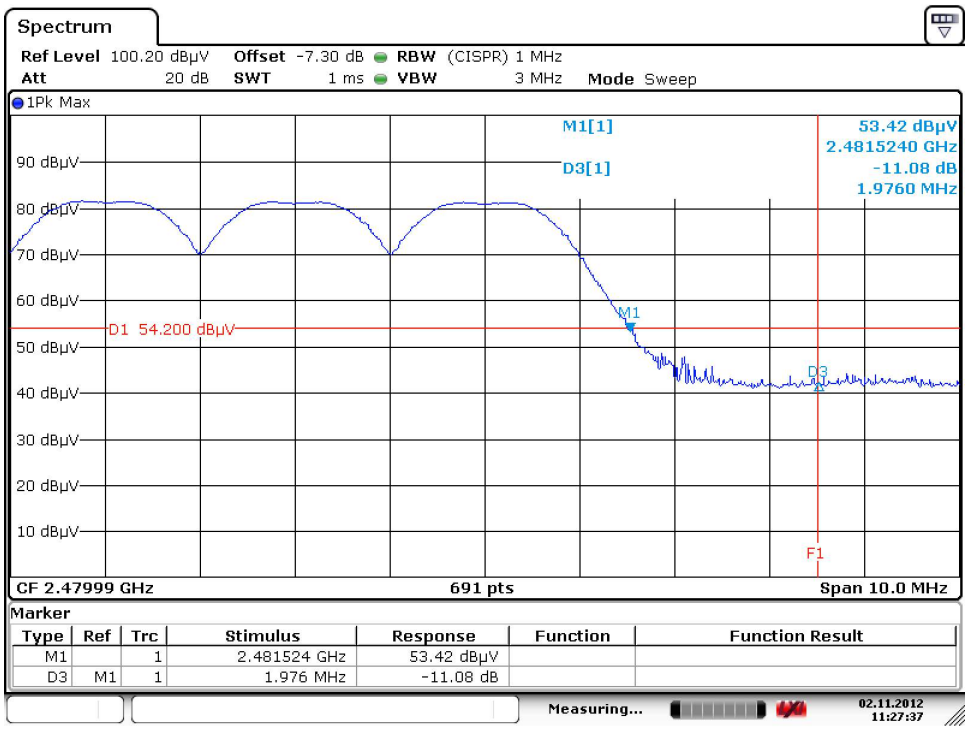
Date: 2.NOV.2012 11:23:07

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Band Edge Measurements**	
DNB Job Number:	36045	Date: 2 Nov 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products 1Mbps data rate (Basic data rate)		**Clause** 15.247(d)

Ambient Temperature	Relative Humidity	Barometric Pressure
19 °C	28 %	101.8 kPa

EUT performed within the requirements of the applicable standard [X] Yes [ ] No *Les Payne*

Radiated Corrected Band Edge Measurement - All Channels - Vert - X Axis						Freq Delta (MHz)	Pass/Fail
Limit	Lower (MHz)	Upper (MHz)	Limit (dBuV/m)	Measured (dBuV/m)	Delta (dBuV)		
2483.500		2481.524	54.0	42.92	-11.08	-1.976	Pass



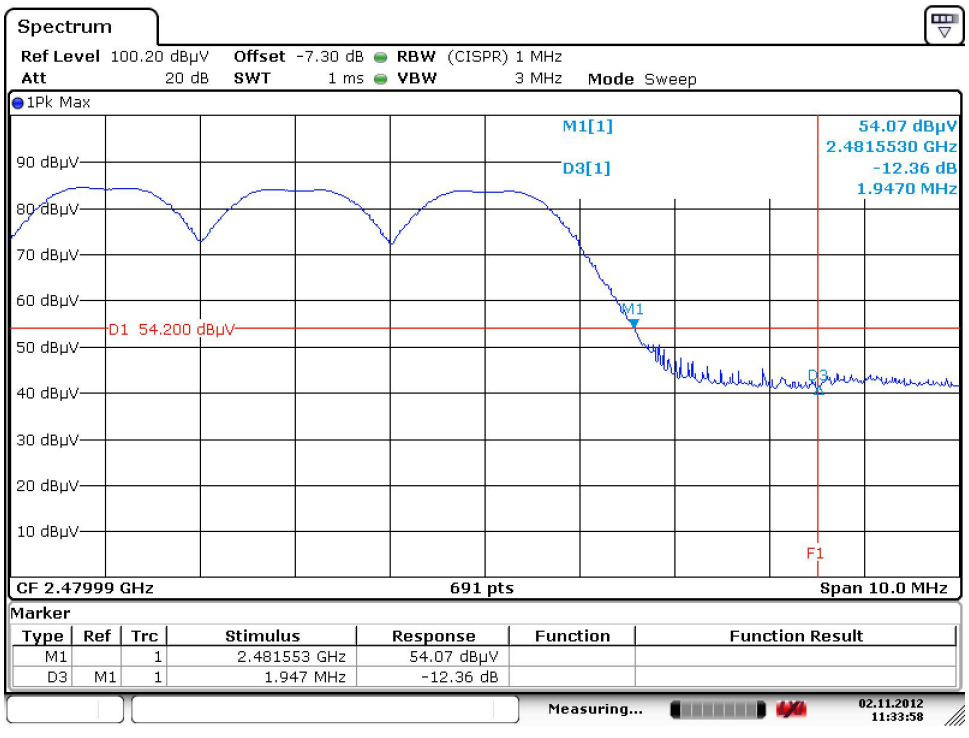
Date: 2.NOV.2012 11:27:37

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Band Edge Measurements**	
DNB Job Number:	36045	Date: 2 Nov 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products 1Mbps data rate (Basic data rate)		**Clause** 15.247(d)

Ambient Temperature	Relative Humidity	Barometric Pressure
19 °C	28 %	101.8 kPa

EUT performed within the requirements of the applicable standard [X] Yes [ ] No *Les Payne*

Radiated Corrected Band Edge Measurement - All Channels - Vert - Y Axis						Freq Delta (MHz)	Pass/Fail
Limit	Lower (MHz)	Upper (MHz)	Limit (dBuV/m)	Measured (dBuV/m)	Delta (dBuV)		
2483.500		2481.553	54.0	41.64	-12.36	-1.947	Pass



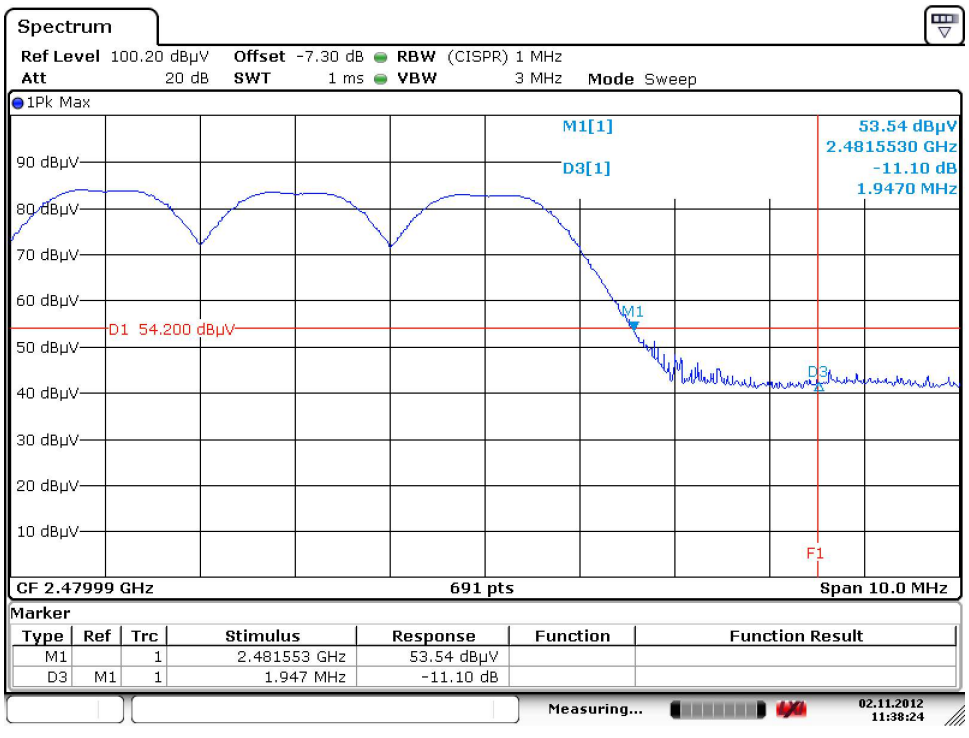
Date: 2.NOV.2012 11:33:58

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Band Edge Measurements**	
DNB Job Number:	36045	Date: 2 Nov 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products 1Mbps data rate (Basic data rate)		**Clause** 15.247(d)

Ambient Temperature	Relative Humidity	Barometric Pressure
19 °C	28 %	101.8 kPa

EUT performed within the requirements of the applicable standard [X] Yes [ ] No *Les Payne*

Radiated Corrected Band Edge Measurement - All Channels - Vert - Z Axis						Freq Delta (MHz)	Pass/Fail
Limit	Lower (MHz)	Upper (MHz)	Limit (dBuV/m)	Measured (dBuV/m)	Delta (dBuV)		
2483.500		2481.553	54.0	42.90	-11.10	-1.947	Pass



Date: 2.NOV.2012 11:38:23

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Conducted Spurious**	
DNB Job Number:	36045	Date: 5 Nov 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products		**Clause** 15.247(c)
	Test Procedure		

Ambient Temperature	Relative Humidity	Barometric Pressure
21 °C	25 %	101.2 kPa

EUT performed within the requirements of the applicable standard [X] Yes [ ] No *Les Payne*

Test Procedure: IEEE C63.10

Spurious RF Conducted Emissions

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
RBW = 100 kHz
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold

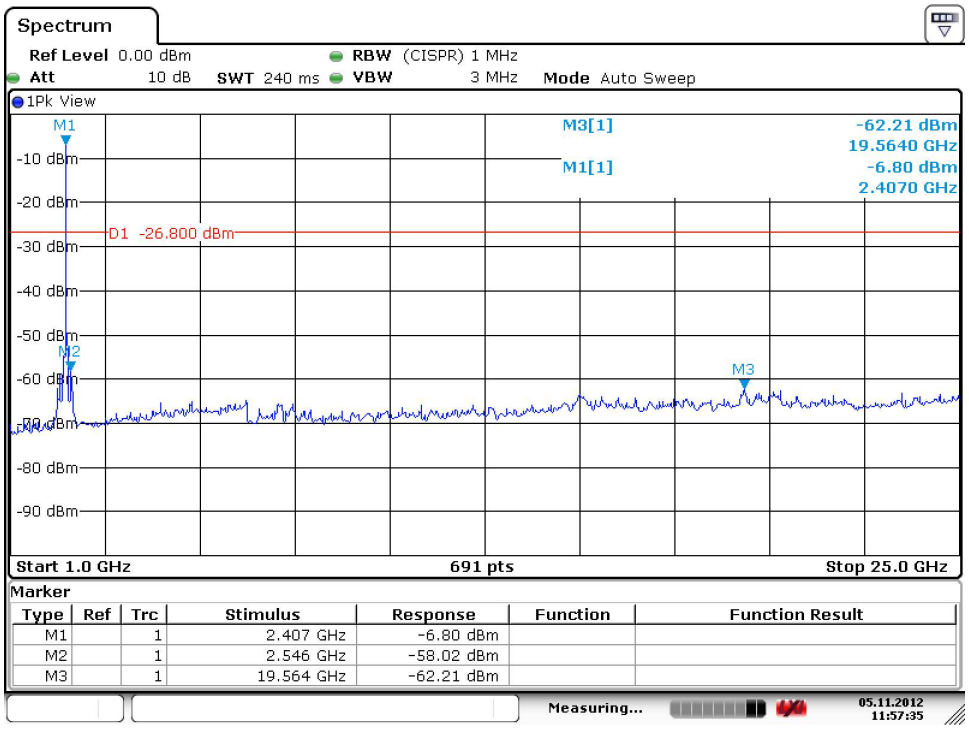
Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this Section. Submit these plots.

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Conducted Spurious**	
DNB Job Number:	36045	Date: 5 Nov 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products 1Mbps data rate (Basic data rate) - Low Channel		**Clause** 15.247(c)

Ambient Temperature	Relative Humidity	Barometric Pressure
21 °C	25 %	101.2 kPa

EUT performed within the requirements of the applicable standard [X] Yes [ ] No *Les Payne*

Peak Output Power	Reading	-20dBc	Pass/Fall
-6.64 dBm	-6.80 dBm	-26.80 dBm	Pass



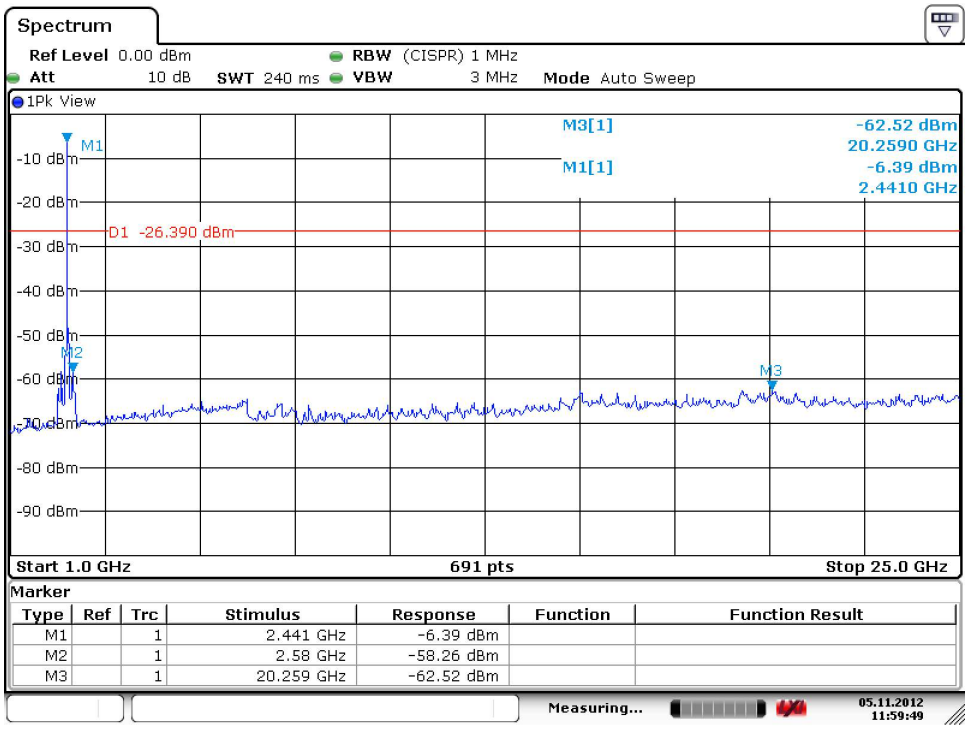
Date: 5.NOV.2012 11:57:35

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Conducted Spurious**	
DNB Job Number:	36045	Date: 5 Nov 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products		**Clause** 15.247(c)
	1Mbps data rate (Basic data rate) - Mid Channel		

Ambient Temperature	Relative Humidity	Barometric Pressure
21 °C	25 %	101.2 kPa

EUT performed within the requirements of the applicable standard [X] Yes [ ] No *Les Payne*

Peak Output Power	Reading	-20dBc	Pass/Fall
-6.35 dBm	-6.39 dBm	-26.39 dBm	Pass



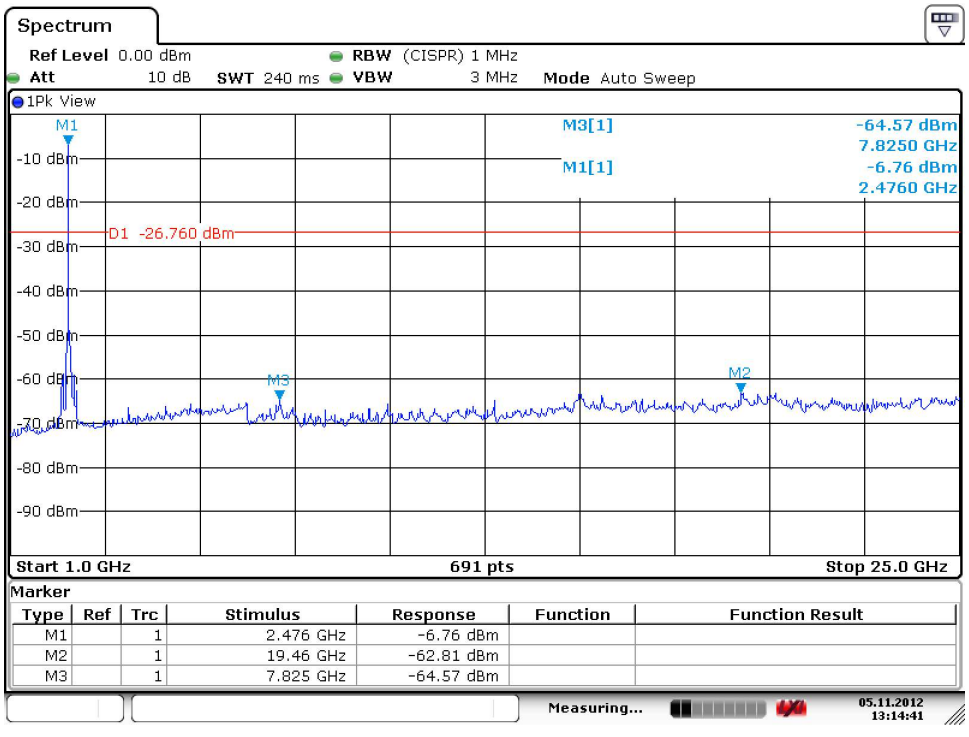
Date: 5.NOV.2012 11:59:49

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Conducted Spurious**	
DNB Job Number:	36045	Date: 5 Nov 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products		**Clause** 15.247(c)
	1Mbps data rate (Basic data rate) - High Channel		

Ambient Temperature	Relative Humidity	Barometric Pressure
21 °C	25 %	101.2 kPa

EUT performed within the requirements of the applicable standard [X] Yes [ ] No *Les Payne*

Peak Output Power	Reading	-20dBc	Pass/Fall
-6.39 dBm	-6.76 dBm	-26.76 dBm	Pass



Date: 5.NOV.2012 13:14:41

15.247(d): Power spectral density(PSD).

Test Procedure: IEEE C63.10

The same method of determining the conducted output power shall be used to determine the power spectral density.

If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used.

Locate and zoom in on emission peak(s) within the passband.
Set RBW = 3 kHz,
VBW > RBW, sweep= (SPAN/3 kHz) e.g., for a span of 1.5 MHz, the sweep
should be 1.5 x 10^6 8 3 x10^3 = 500 seconds.

The peak level measured must be no greater than + 8 dBm. If external attenuation is used, don`t forget to add this value to the reading. Use the following guidelines for modifying the power spectral density measurement procedure when necessary.

For devices with spectrum line spacing greater than 3 kHz no change is required.

For devices with spectrum line spacing equal to or less than 3 kHz, the resolution bandwidth must be reduced below 3kHz until the individual lines in the spectrum are resolved. The measurement data must then be normalized to 3 kHz by summing the power of all the individual spectral lines within a 3kHz band (in linear power units) to determine compliance.

If the spectrum line spacing cannot be resolved on the available spectrum analyzer, the noise density function on most modern conventional spectrum analyzers will directly measure the noise power density normalized to a 1 Hz noise power bandwidth. Add 35dB for correction to 3 kHz.

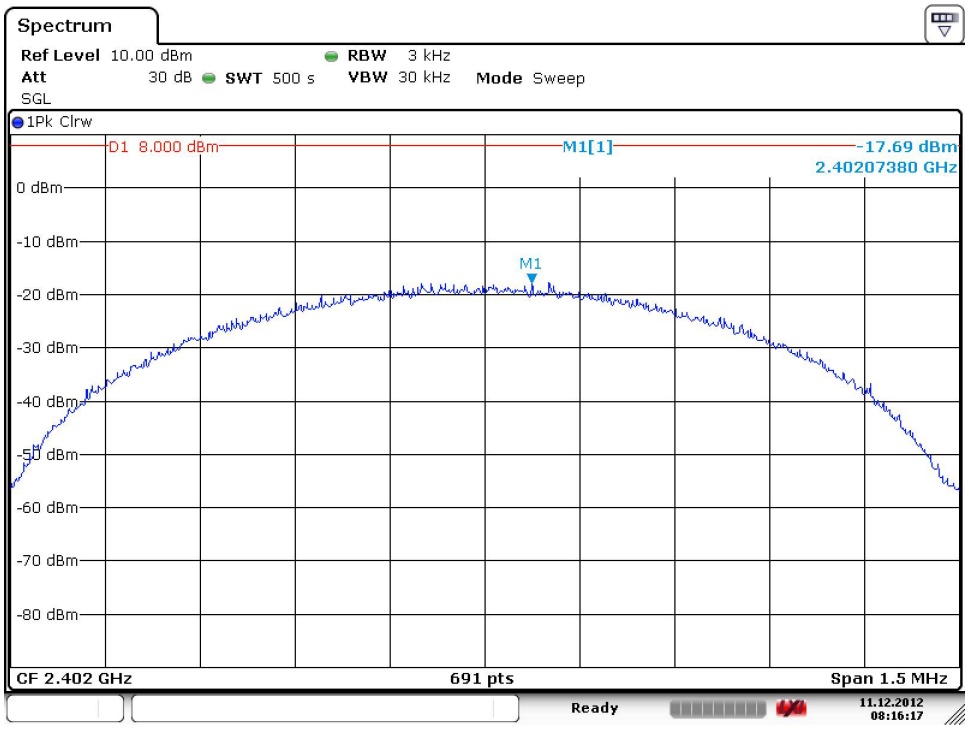
Should all the above fail or any controversy develop regarding accuracy of measurement, the Laboratory will use the HP 89440A Vector Signal Analyzer for final measurement unless a clear showing can be made for a further alternate.

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Power Spectral Density**	
DNB Job Number:	36045	Date: 11 Dec 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products 1Mbps data rate (Basic data rate)		**Clause** 15.247(d)

Environmental Conditions		
Ambient Temperature	Relative Humidity	Barometric Pressure
19 °C	28 %	101.8 kPa

EUT performed within the requirements of the applicable standard [X] Yes [ ] No *Les Payne*

Channel	Freq MHz	Meas PSD (dBm)	Limit (dBm)	Delta (dBm)	Pass/Fail
Low	2402	-17.69	8.0	-25.69	Pass



Date: 11.DEC.2012 08:16:17

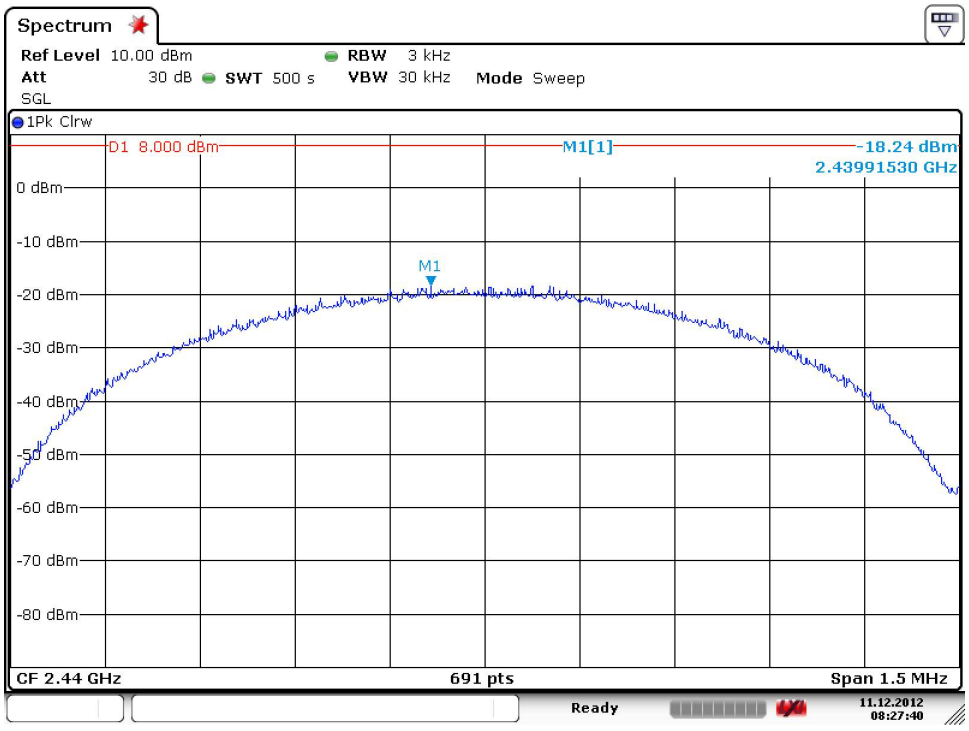
	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Power Spectral Density**	

DNB Job Number:	36045	Date: 11 Dec 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products 1Mbps data rate (Basic data rate)		**Clause** 15.247(d)

Environmental Conditions		
Ambient Temperature	Relative Humidity	Barometric Pressure
19 °C	28 %	101.8 kPa

EUT performed within the requirements of the applicable standard [X] Yes [ ] No *Les Payne*

Channel	Freq MHz	Meas PSD (dBm)	Limit (dBm)	Delta (dBm)	Pass/Fail
Middle	2440	-18.24	8.0	-26.24	Pass



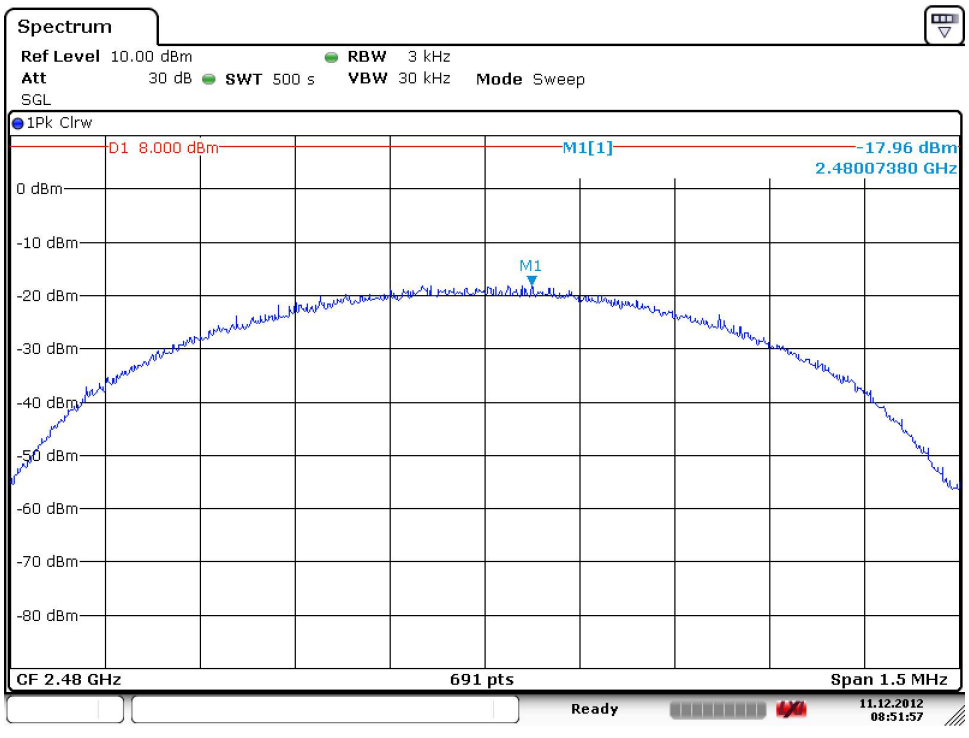
Date: 11.DEC.2012 08:27:41

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Power Spectral Density**	
DNB Job Number:	36045	Date: 11 Dec 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products 1Mbps data rate (Basic data rate)		**Clause** 15.247(d)

Environmental Conditions		
Ambient Temperature	Relative Humidity	Barometric Pressure
19 °C	28 %	101.8 kPa

EUT performed within the requirements of the applicable standard [X] Yes [ ] No *Les Payne*

Channel	Freq MHz	Meas PSD (dBm)	Limit (dBm)	Delta (dBm)	Pass/Fail
High	2480	-17.96	8.0	-25.96	Pass



Date: 11.DEC.2012 08:51:58

2.1055 Frequency stability.

Test Procedure: IEEE C63.10

The frequency stability shall be measured with variation of ambient temperature from -30 to +50 degrees centigrade and the voltage shall be measured at 85% and 115% of the nominal voltage.

Use the following spectrum analyzer settings:

Span = 5MHz
RBW = 100 kHz
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold

Allow the trace to stabilize. Set marker M1 On the peak of the channel, set marker M2 on the -30dB down point of the leading edge of the channel, set marker M3 on the -30dB down point of the trailing edge of the channel. Record this data in the appropriate table.

Verify that the lower channel does not exceed below the lower band edge and the upper channel does not exceed the upper band edge.

Temperature Stability:

Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10 centigrade through the range. A period of time sufficient to stabilize all of the components of the oscillator circuit at each temperature level shall be allowed prior to frequency measurement. Only the extreme temperature range data shall be recorded in the table unless significant variations occur during the measurements.

Voltage Stability:

Vary primary supply voltage from 85 to 115 percent of the nominal value or values in the case of a nominal voltage range.

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Measurement Test Set Up**	
DNB Job Number:	36045	Date: 5 Nov 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products		**Clause** 15.247
Frequency Stability Measurement Set Up			

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	**Frequency Stability**	
DNB Job Number:	36045	Date: 5 Nov 2012	**Conformance Standard** FCC Part 15
Customer:	Icon Health and Fitness, Inc.		
Model Number:	ISRR12		
Description:	Transceiver for use with Icon products 1Mbps data rate (Basic data rate)		**Clause** 2.1055

Environmental Conditions		
Ambient Temperature	Relative Humidity	Barometric Pressure
21 °C	25 %	101.2 kPa

EUT performed within the requirements of the applicable standard [X] Yes [ ] No *Les Payne*

TEST CONDITIONS		Frequency Stability - Temperature - Measured Frequency Bandwidth					
		Lo Channel		Mid Channel		Hi Channel	
Temperature	Voltage	Fl	Fh	Fl	Fh	Fl	Fh
-30.00 °C	3.3 Vdc	2.4008133	2.4032012	2.4388784	2.4411795	2.4788205	2.4811360
-20.00 °C	3.3 Vdc	2.4008133	2.4032012	2.4388857	2.4411867	2.4788061	2.4811143
-10.00 °C	3.3 Vdc	2.4008495	2.4032012	2.4388712	2.4412012	2.4788061	2.4811360
0.00 °C	3.3 Vdc	2.4008350	2.4032012	2.4388495	2.4411939	2.4788061	2.4811433
10.00 °C	3.3 Vdc	2.4008495	2.4031939	2.4388495	2.4412012	2.4787988	2.4811216
20.00 °C	3.3 Vdc	2.4008495	2.4031939	2.4388423	2.4411939	2.4787916	2.4811577
30.00 °C	3.3 Vdc	2.4008423	2.4031939	2.4388423	2.4411939	2.4787771	2.4811577
40.00 °C	3.3 Vdc	2.4008495	2.4031867	2.4388423	2.4412012	2.4787699	2.4811433
50.00 °C	3.3 Vdc	2.4008495	2.4031795	2.4388423	2.4411795	2.4787627	2.4811288
55.00 °C	3.3 Vdc	2.4008495	2.4031650	2.4388205	2.441202	2.4787699	2.4811143

TEST CONDITIONS		Frequency Stability - Voltage - Measured Frequency Bandwidth					
		Lo Channel		Mid Channel		Hi Channel	
Temperature	Voltage	Fl	Fh	Fl	Fh	Fl	Fh
25.00 °C	2.805 Vdc	2.4009074	2.4031722	2.4388712	2.4411795	2.4787916	2.4800433
25.00 °C	3.3 00Vdc	2.4008857	2.4031867	2.4388784	2.4411939	2.4788061	2.4811288
25.00 °C	3.795 Vdc	2.4008784	2.4031867	2.4388640	2.4411867	2.4787988	2.4811216

Note 1 : Shaded area represents nominal voltage and temperature range.

Note 2 : Fl = Lower channel frequency edge (-30dB down) / Fh = Upper channel frequency edge (-30dB down)

2.1033 (b) (7) Equipment Photographs

Photo 1	Internal	Top of PCB
Photo 2	Internal	Bottom of PCB
Photo 3	External	Front
Photo 4	External	Rear

Photo 1 Internal Top of PCB

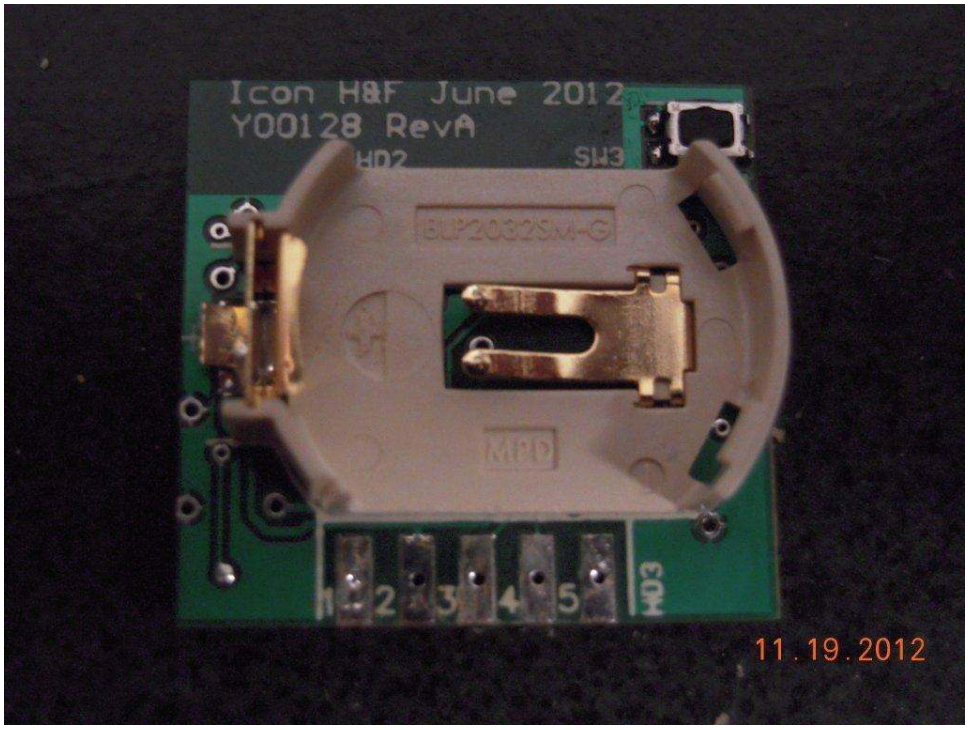


Photo 2 Internal Bottom of PCB

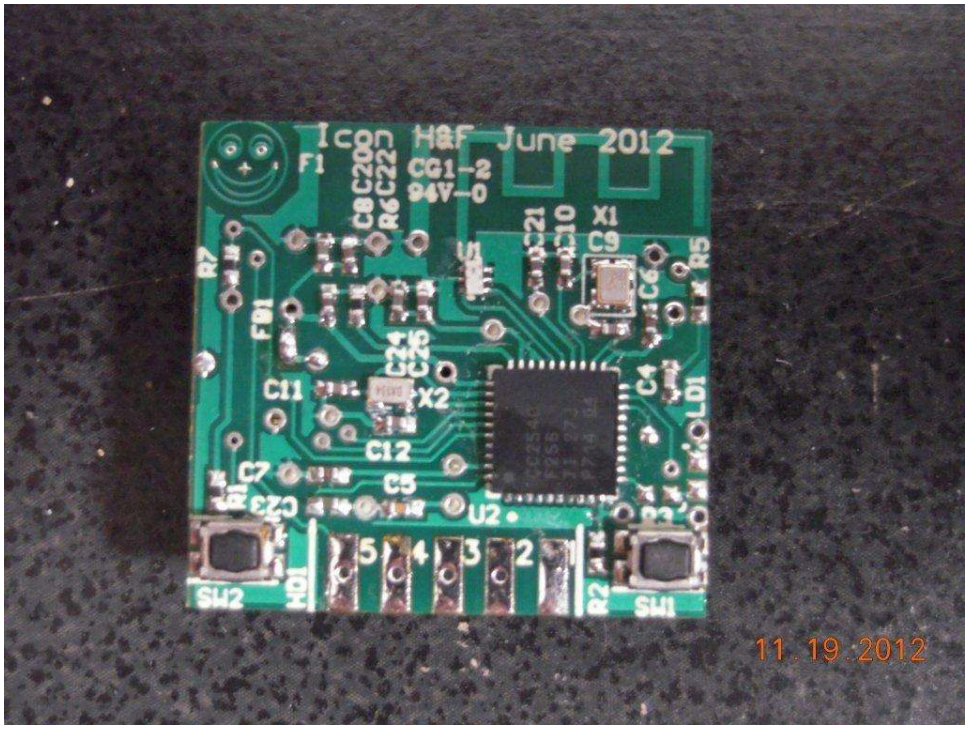


Photo 3 External Front

Photo 4 External Rear

15.247 (b) (5) RF Exposure Requirements

RF Exposure – MPE Calculations (2400-2483.5 MHz Band)

Transmitter Power: 0.230 mW
Antenna Gain: 2.3 dB
Cable loss: 0 dB
Frequency range: 2400 - 2483.5 MHz

Assumptions
1. A single ¼ wavelength radiating antenna is assumed.
2. Closest exposure distance is assumed to be 0.5 cm.

Calculations

The following results shall be assumed to be accurate for the far-field only. These predictions will over-estimate power density in the near–field. Based on the use of a ¼ wavelength radiator, a distance of 0.5 cm is considered to be in the far-field for all cases.

$S = PG/4*PI*R^2$
P is 0.23 mW
G is 2.3 dB (Antenna gain – loss) or $10^{(2.3/10)}$ or 2.3

	R = (Distance in cm)						
	20cm	10cm	5cm	2cm	1cm	0.5cm	
S =	0.000077	0.000307	0.001230	0.007686	0.030742	0.122970	mW/cm^2

For Occupational/Controlled Exposure
From 1,500 to 100,000 MHz, power density limit is **5 mW/cm^2 for 6 minutes**

For General Population/Uncontrolled Exposure
From 1,500 to 100,000 MHz, power density limit is **1 mW/cm^2 for 30 minutes**

In accordance with FCC requirements for a portable device the following observations are observed:

Maximum E.I.R.P. = 0.39mW

This device is a low power radiator and the RF field which it generates is very low and therefore exposure to the radiated field is minor. Therefore it can be considered to comply with the requirements of FCC and IC to RF exposure in accordance with KDB 447498 v04.

Conclusion: ***Device complies with FCC and IC RF Exposure requirements.***

End of Report UT36045F-001